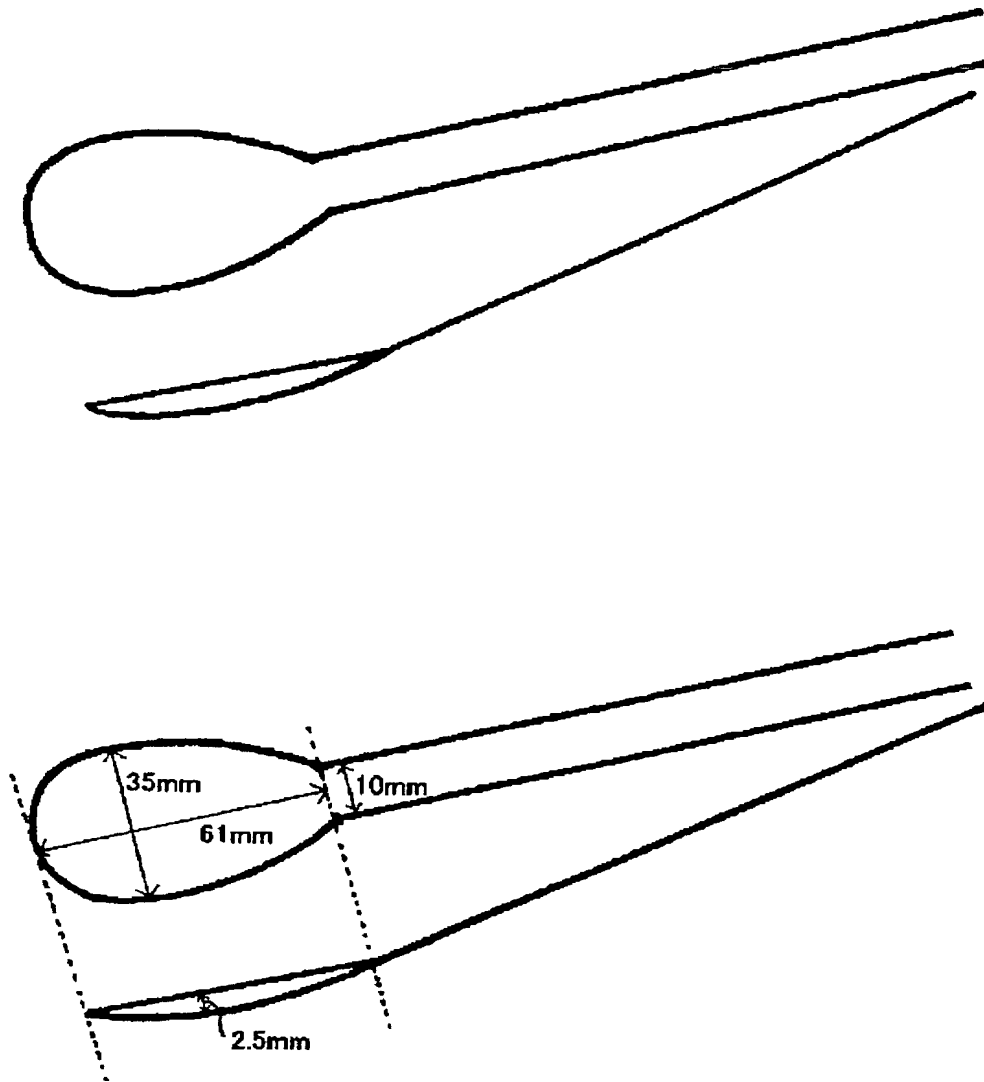


Fig. 2



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Fig. 5

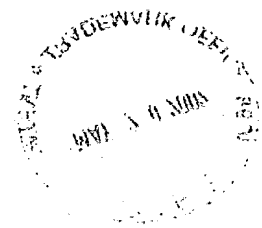
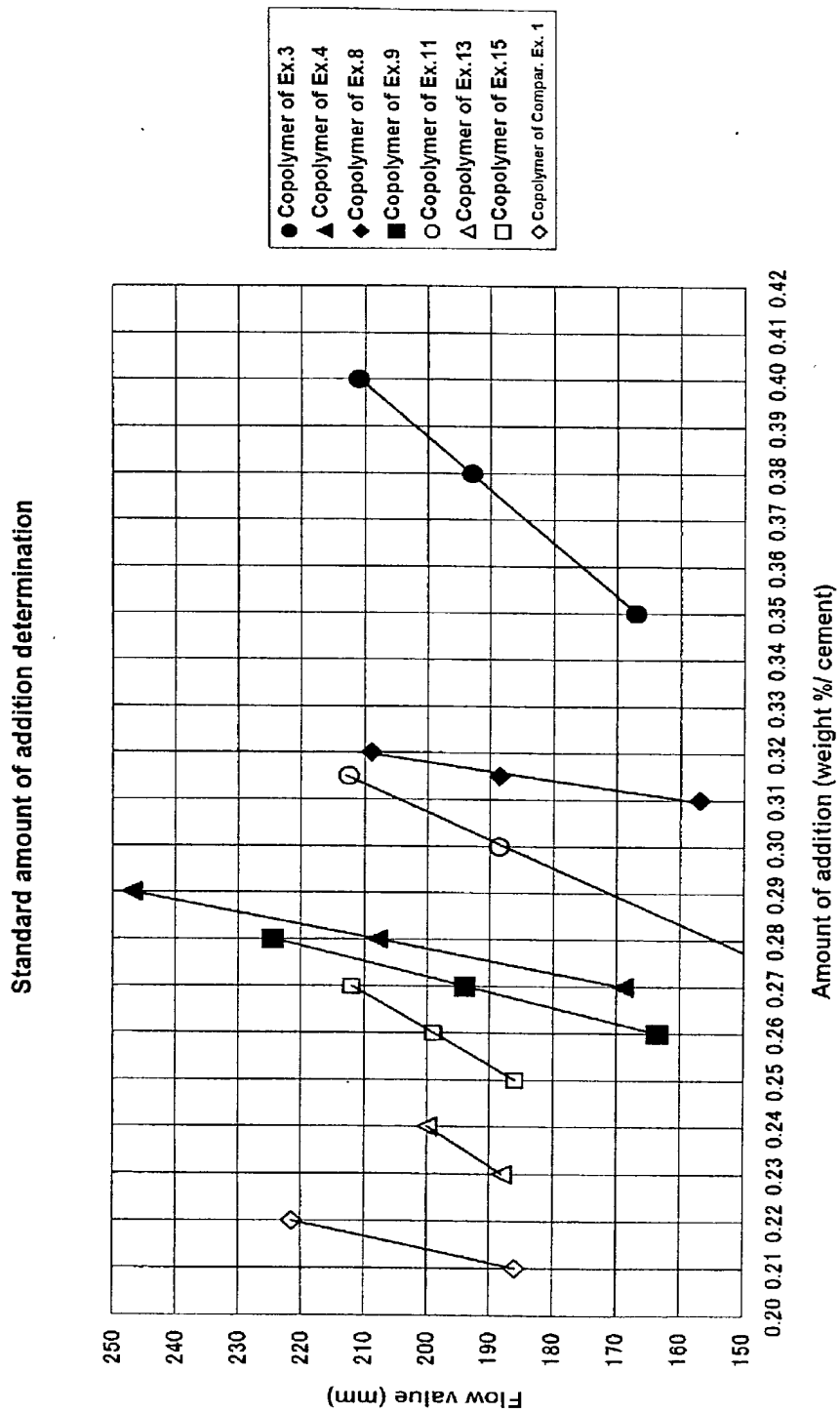


Fig. 6

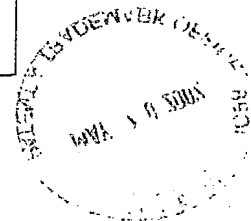
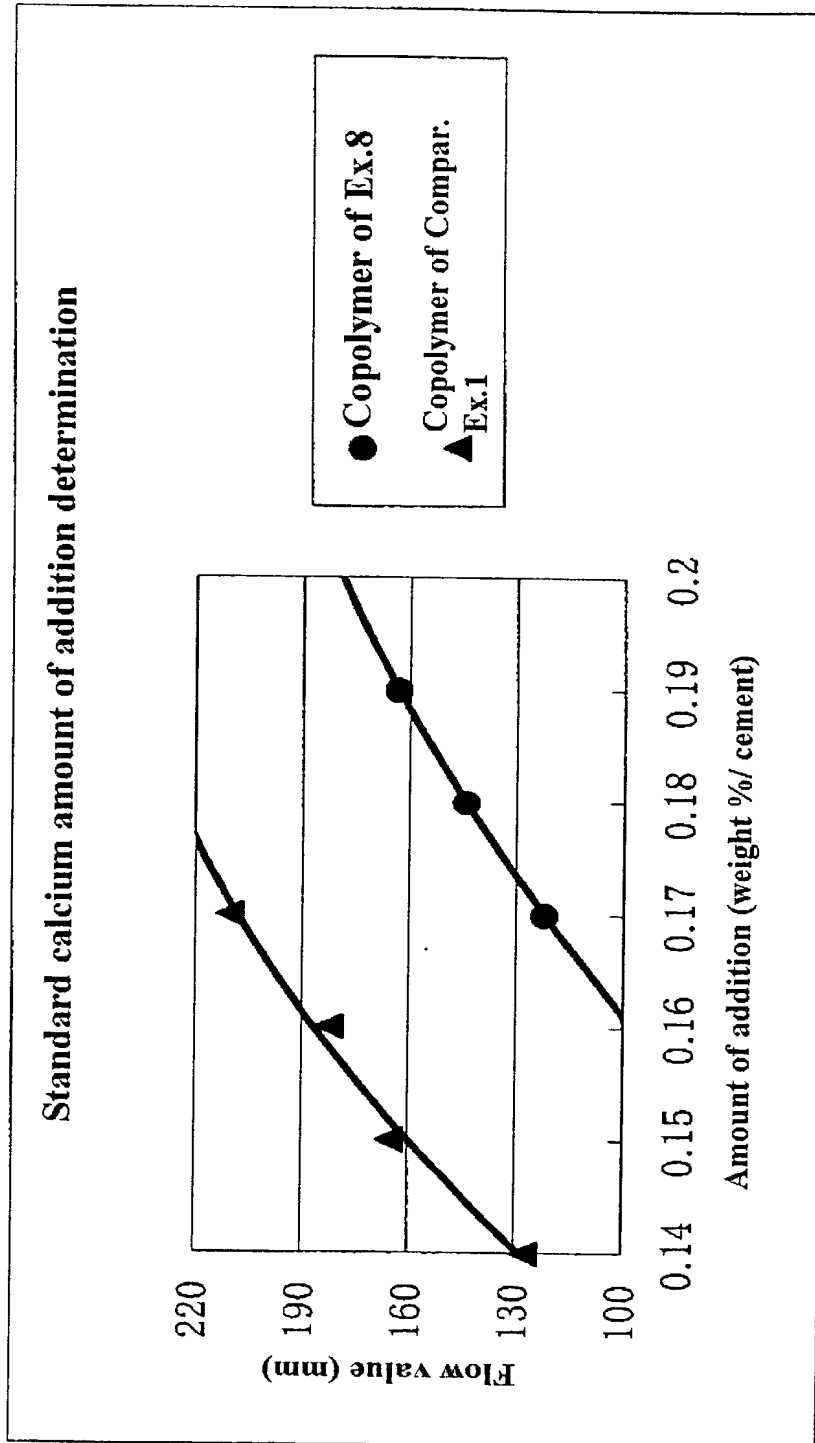


Fig. 8

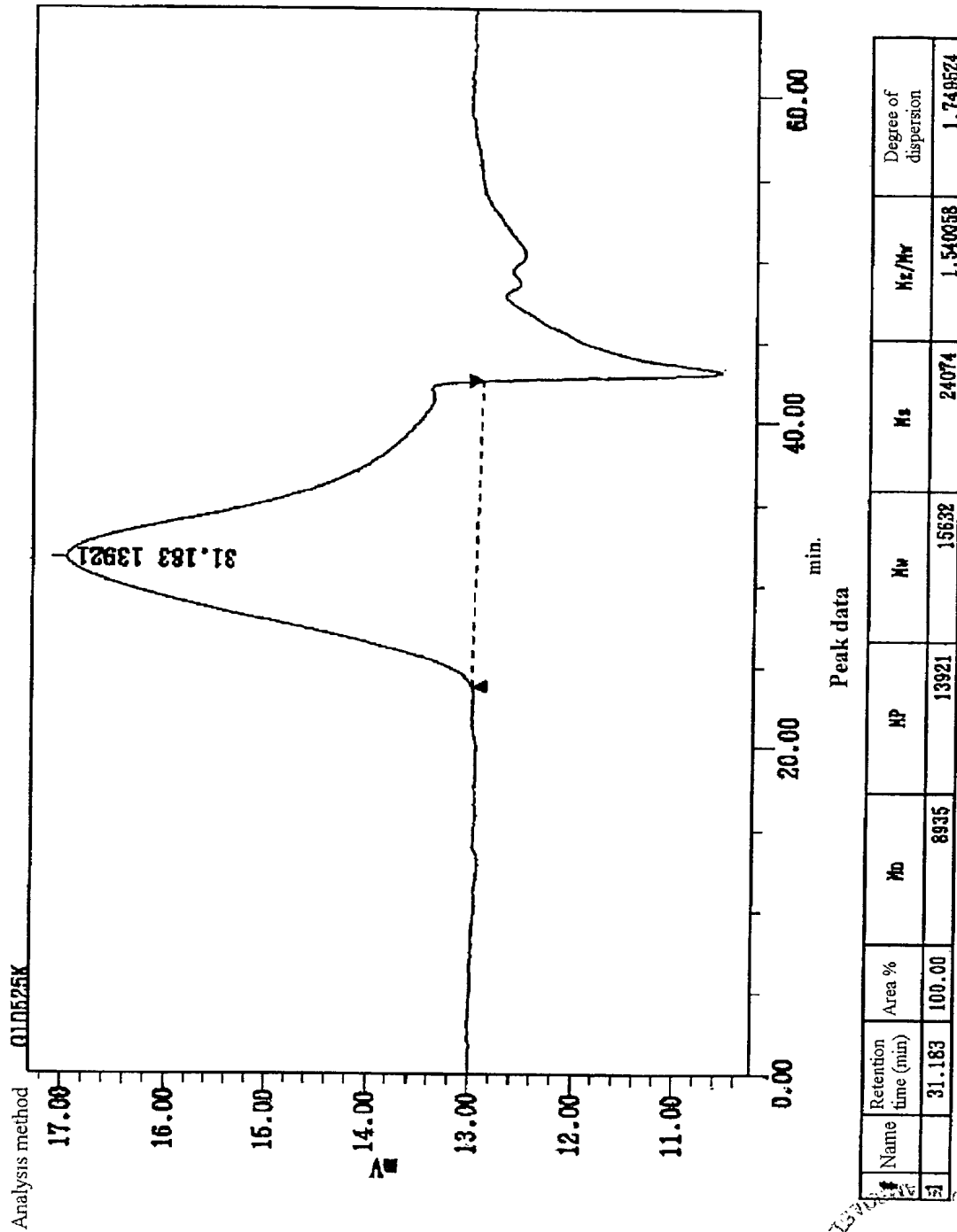
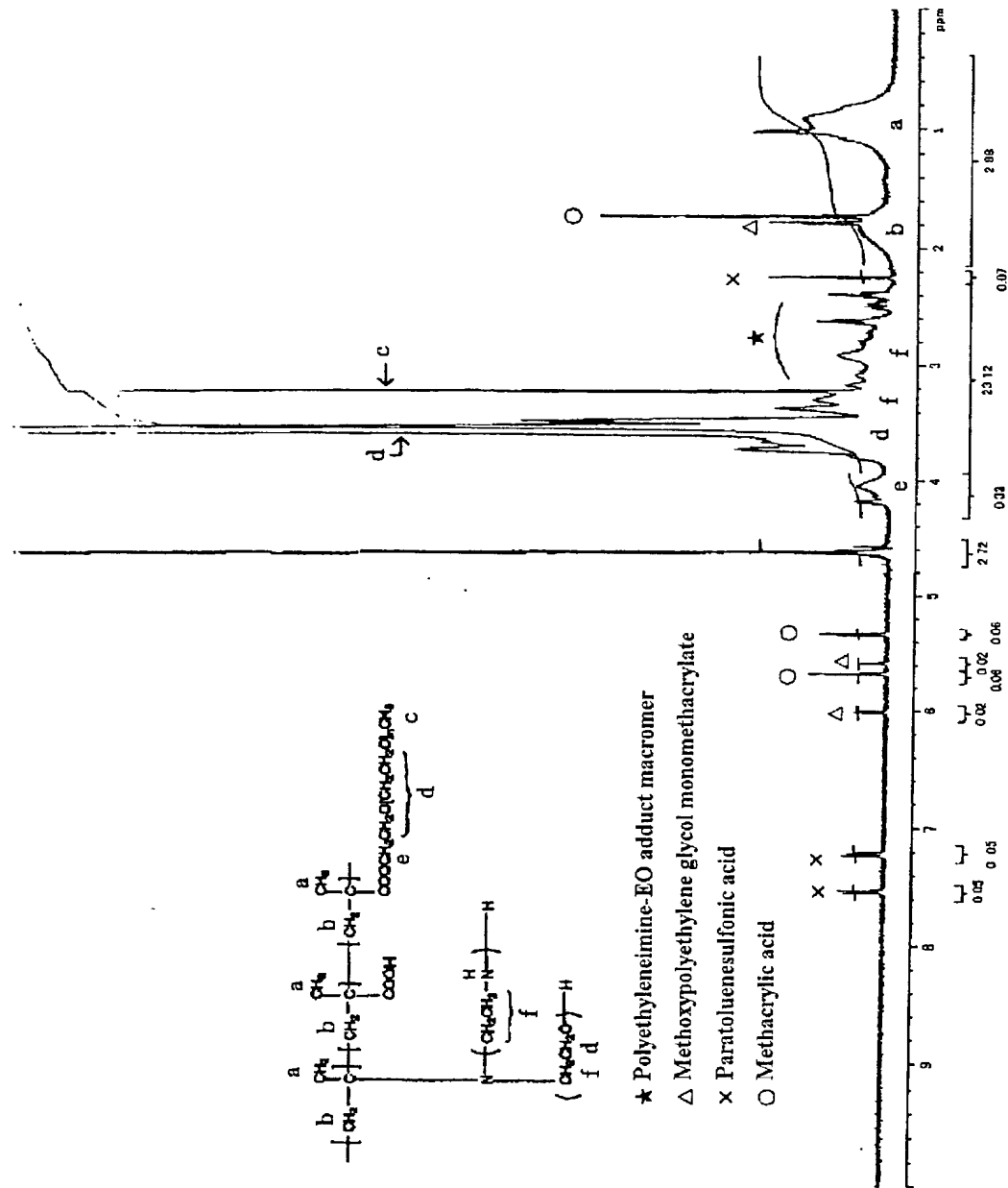


Fig. 9



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Fig. 10

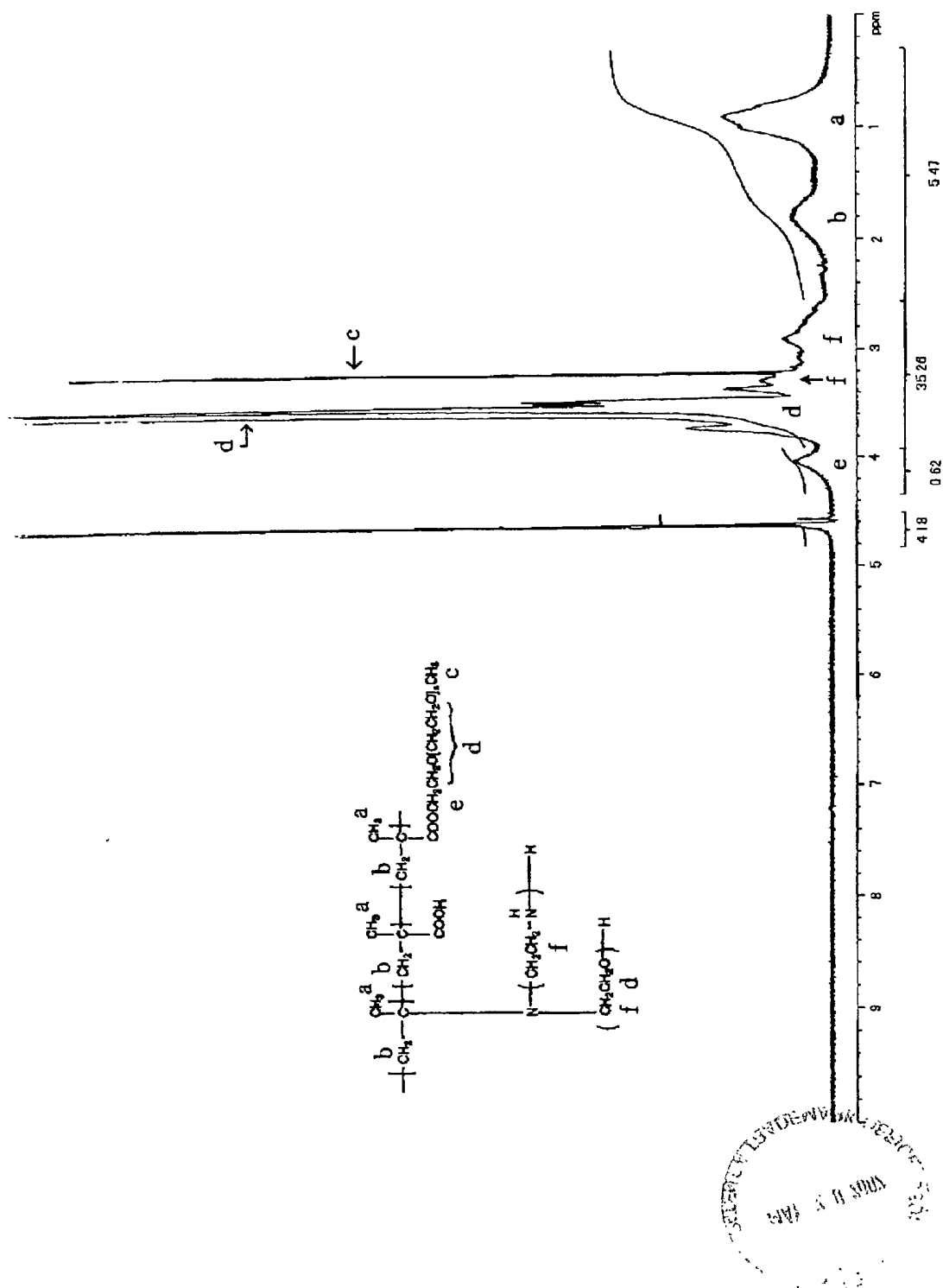
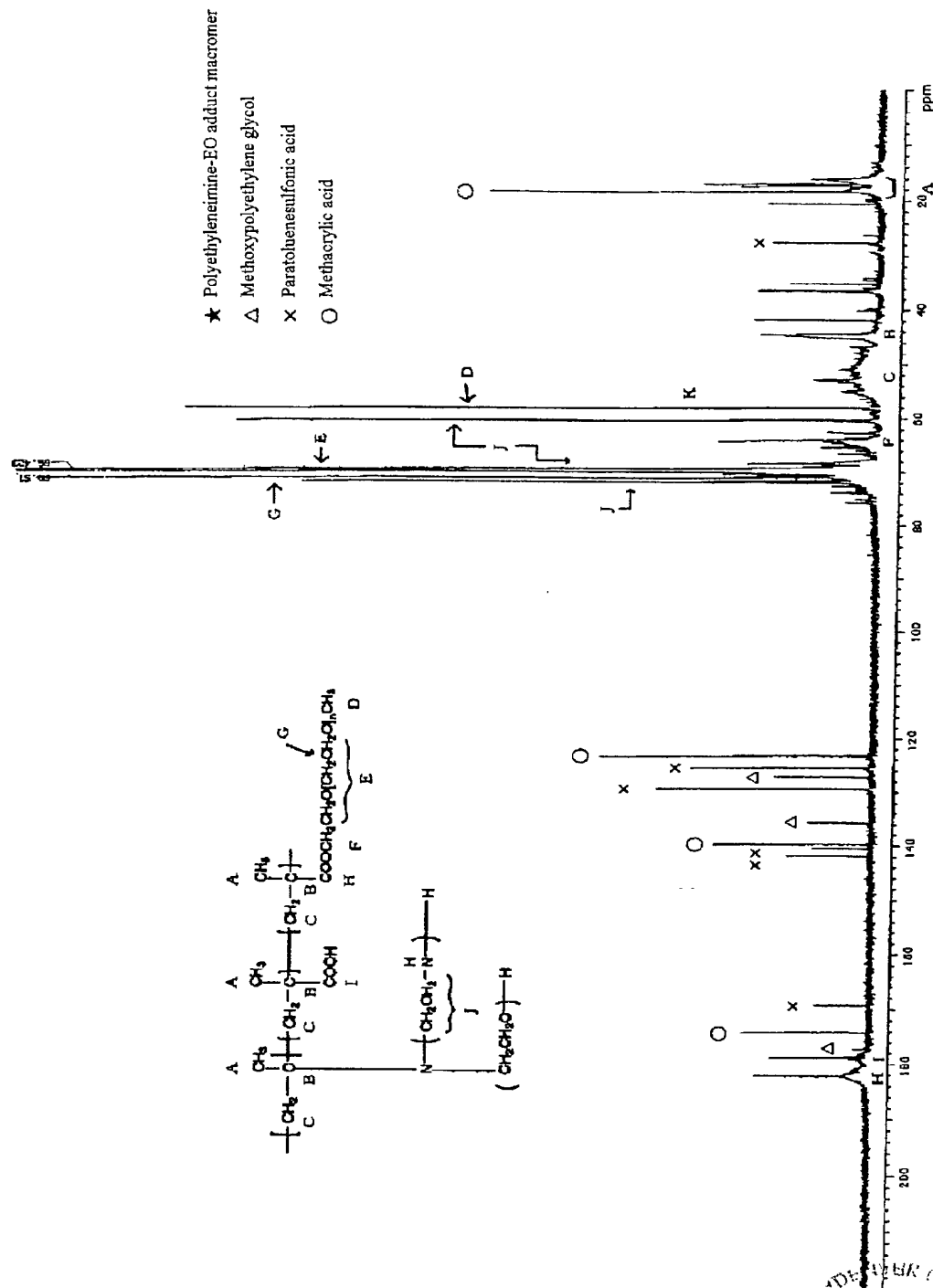
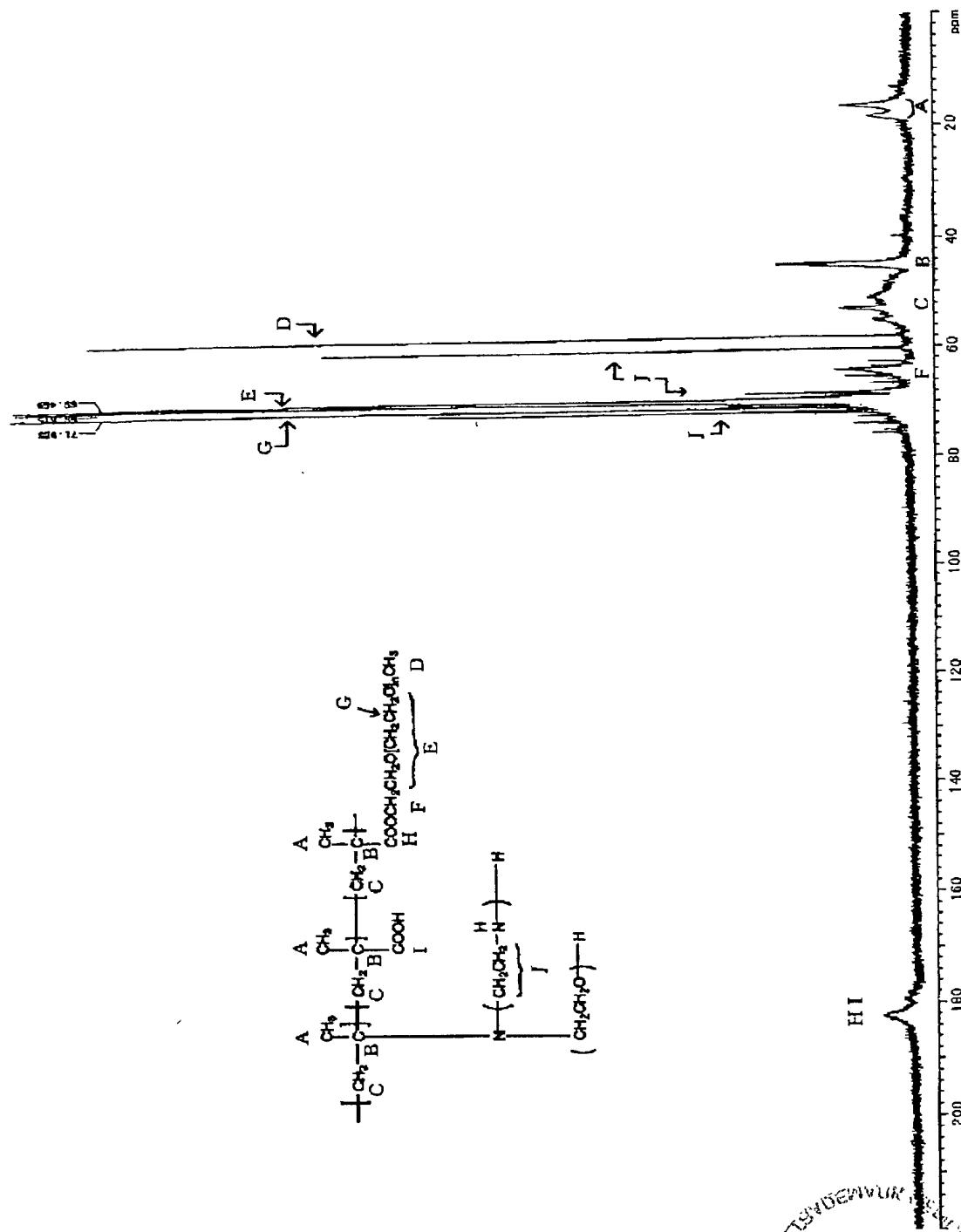


Fig. 11



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Fig. 12



100% TMS
100% TMS
100% TMS

IR Spectrum of Polyacrylonitrile (PAN)

Wavenumbers (cm⁻¹): 4000, 3000, 2000, 1800, 1600, 1400, 1200, 1000, 800, 500, 400

Transmittance (%): 100, 90, 80, 70, 60, 50, 40, 30, 20

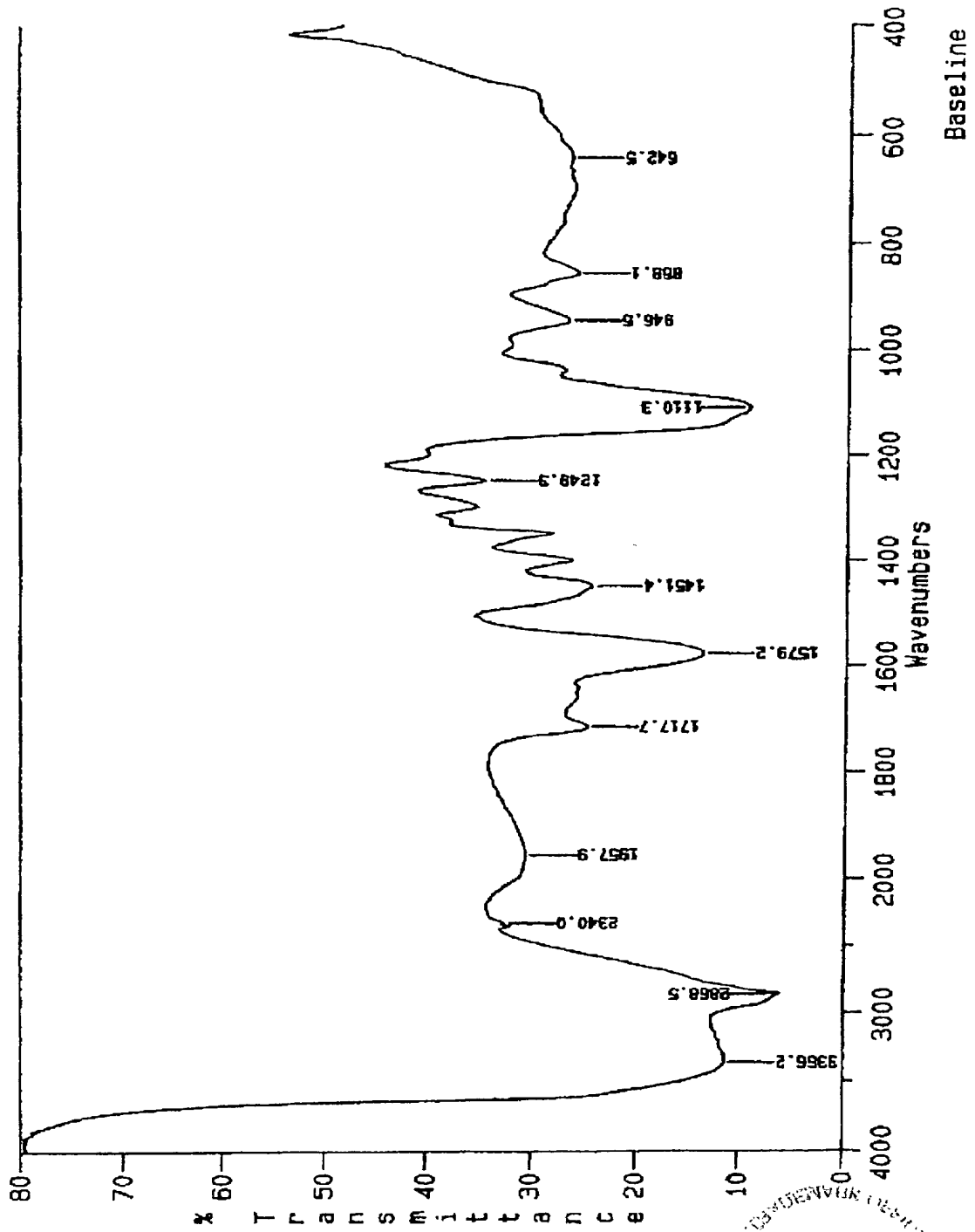
Key Peaks (Wavenumbers):

- 3370.9
- 2970.9
- 1954.7
- 1718.8
- 1567.6
- 1454.0
- 1404.0
- 1351.1
- 1288.6
- 1247.6
- 1106.5
- 1040.5
- 947.4
- 854.3
- 683.8
- 565.8

POLYACRYLONITRILE

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Fig. 14



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Fig. 15

